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Education

Rutgers University, New Brunswick

New Brunswick, NJ

B.S., COMPUTER SCIENCE, HONORS PROGRAM (3.54 GPA)

September 2015 - May 2019

Academic Research

Visual MIMO: Calibrationless visible-light communications framework using Android phones

Spring 2016 - Spring 2017

- Integrated algorithms for decoding color-embedded messages and general speed improvements.
- Designed and built an automated testing bench to analyze message transmission accuracy.
- · Conducted an experiment on the effects on message retrieval accuracy when constraining the volume of differential metamers.
- Presented at Computer Vision and Pattern Recognition 2016 conference.

Work Experience _

Rutgers University, Computer Science Department

Piscataway, NJ

PROGRAMMER July 2017 - Present

- · Sole developer of a CRUD application for use by students, LAs, and professors in Computer Science courses.
- · Large database design and a testing framework for use in the project.
- Utilized: PHP, MySQL, PHPUnit

Rutgers University, Rutgers Learning Centers

Piscataway, NJ

LEARNING ASSISTANT (INTRODUCTION TO COMPUTER SCIENCE)

August 2016 - Present

- Facilitate a 55-minute recitations and study groups.
- Actively encourage deeper understandings of concepts and their motivations.

Rutgers University, School of Arts and Science IT

Piscataway, NJ

PROGRAMMER September 2015 - June 2016

- Developed a series of course searching modules and a staff directory module on Joomla!.
- Automated the transfer of data from old systems to the Joomla! CMS.
- Utilized: PHP, MySQL

Relevant Coursework

Computer Science

Algorithms, Computer Architecture, Compilers, Databases, Data Structures, Discrete Structures I & II, Internet Technology, Systems Programming, Principles of Programming Languages, Honors Seminar

Engineering Independent Study in Computer Vision

Independent Projects

Speckle A general usage programming language written in C that compiles to x86. **TimeTracker** A CLI program to track hours working on various tasks, written in C.

CharAn 8-bit architecture with its own instruction set, CPU design, and simulator written in C.IndigoAn Assembly-like language with a compiler written in C, run on the Char architecture.VoxelGenA procedurally generated Minecraft clone written in C++, using OpenGL for graphics.

Charm A toy functional programming language written in C.

Biometric Login A proof-of-concept login system which utilizes how you type to authenticate you.

ChemifyAn Android application which solves various chemistry problems such as predicting chemical reactions, dimensional

analysis, and chemical nomenclature.

A horror game written in Java and LWJGL.

RestaurantStock A web-based restaurant inventory management system written in PHP.

Skills

Enigma Machine

Languages C, Java, PHP, Android, MySQL, C++, Scheme, MATLAB, Javascript, Python

Software Linux, Git, OpenGL